

### Draft Rule Making Reference Documents

**R9-25-301(B)(4):** To apply for certification as a training program, an applicant shall submit an application to the Department, in a Department-provided format, including Attestation that the applicant has the equipment and facilities that meet the requirements established according to A.R.S. § 36-2204 and available through the Department at www.azdhs.gov for the courses specified in subsection (B)(3);

### Minimum ALS Training Program Equipment

### Minimum BLS Training Program Equipment

**R9-25-305(B)(2):** A training program director shall ensure that for a course to prepare an EMT-I(99) for Paramedic certification: The course covers the knowledge, skills, and competencies established according to A.R.S. § 36-2204 and available through the Department at www.azdhs.gov;

### Arizona Intermediate to Paramedic Transition Course

**R9-25-305(C)(3)(b)(i):** A training program director shall ensure that for an EMT refresher course; The EMT refresher course covers; Until the following dates, the knowledge, skills, and competencies established according to A.R.S. § 36-2204 and available through the Department at www.azdhs.gov; March 31, 2015, for a student who has documentation from a national certification organization of certification at the EMT level or higher level of EMCT that expired on or before March 31, 2011.

#### **Transition Verification Attestation**

**R9-25-305(C)(3)(b)(ii):** A training program director shall ensure that for an EMT refresher course; The EMT refresher course covers; Until the following dates, the knowledge, skills, and competencies established according to A.R.S. § 36-2204 and available through the Department at www.azdhs.gov; March 31, 2016, for a student who has documentation from a national certification organization of certification at the EMT level or higher level of EMCT that expired between April 1, 2011 and March 31, 2012.

### **Transition Verification Attestation**

**R9-25-305(E)(3)(b):** A training program director shall ensure that for an ALS refresher course; The ALS refresher course covers; For a student who has current certification as an EMT-I(99), the knowledge, skills, and competencies established according to A.R.S. § 36-2204 for an EMT-I(99) as of the effective date of this Section and available through the Department at www.azdhs.gov

#### Arizona Intermediate Refresher Course

**R9-25-305(E)(3)(d):** A training program director shall ensure that for an ALS refresher course; The ALS refresher course covers; Until the following dates, the knowledge, skills, and competencies established according to A.R.S. § 36-2204 and available through the Department at www.azdhs.gov; March 31, 2015, for a student who has documentation of completion of prior training at a level between EMT-I(99) and Paramedic and certification from a national certification organization that expired on or before March 31, 2011

**Transition Verification Attestation** 



### Draft Rule Making Reference Documents

**R9-25-502(B)(3)(a):** An EMCT shall perform a medical treatment, procedure, or technique or administer a medication only; For a skill indicated by "STR" in Table 5.1; If the EMCT has received and maintains documentation of having completed training specific to the skill that is consistent with the knowledge, skills, and competencies established according to A.R.S. § 36-2204 and available through the Department at www.azdhs.gov

Bureau of EMS & Trauma System Guidance Documents

<u>Arizona Scope of Practice</u>

**R9-25-502(C)(1)(b)(i):** A medical director; Shall; Before authorizing an EMCT to perform a skill indicated by "STR" in Table 5.1, ensure that the EMCT has; Completed training specific to the skill, consistent with the knowledge, skills, and competencies established according to A.R.S. § 36-2204 and available through the Department at www.azdhs.gov.

Bureau of EMS & Trauma System Guidance Documents

**Arizona Scope of Practice** 



# ARIZONA DEPARTMENT OF HEALTH SERVICES BUREAU OF EMERGENCY MEDICAL SERVICES & TRAUMA SYSTEM ALS Training Program Equipment Attestation Addendum



Training Program Name	Applicant's Certification Number

	ALS MINIMUM E	QUIPN	MENT LIST
Quantity	<u>Equipment</u>		ty Equipment
1	Moulage or Casualty Simulation Equipment	5	Occlusive dressings
6	Trauma Dressings	2	Traction splint devices
1 per student 1 per	Pen Lights (or provided by the student) Scissors (or provided by the	2	Cervical-thoracic spinal immobilization device for extrication, with straps
student	student)	2	Long spine boards with securing devices
4	Stethoscopes (or provided by the student)		Cervical collars (small, regular,
4	Blood pressure cuffs - adult sizes	3 of each	medium, large, and extra large) NOTE: may substitute 6 adjustable
4	Blood pressure cuffs - child size	size	devices NOTE: Soft collars and foam types
4	Bag-valve-mask devices - adult size		are not acceptable
4	Bag-valve-mask devices - pediatric size	2	Head immobilization materials/devices
	Oxygen tank with regulator and	1	Ambulance stretcher
	key	2	Blood glucose monitoring devices
2	(Must be operational and	2	Portable suction devices
	maintain a minimum of 500psi.)	3	Rigid suction catheters
4	Oxygen masks non-rebreather - adult	3 2 of	Flexible suction catheters
4	Oxygen masks non-rebreather - child	each size	Oropharyngeal airways
4	Nasal cannulas	2 of	
2 boxes	Alcohol preps	each	Nasopharyngeal airways
One box per student	Gloves - (small, medium, large, and extra large, non-latex) (each student has one box of an appropriate size available during the course)	size 2 of each size 2	Rigid splints (6 inch, 12 inch, 18 inch, 24 inch, and 36 inch)  Burn sheets
6 packages	4x4 sponges (non sterile)	2	OB kits
5 boxes	5x9 sponges (non sterile)	2	CPR Manikins - adult
36 rolls	Rolled gauze (non sterile)		



# ARIZONA DEPARTMENT OF HEALTH SERVICES BUREAU OF EMERGENCY MEDICAL SERVICES & TRAUMA SYSTEM ALS Training Program Equipment Attestation Addendum



	ALS MINIMUM EQUIPM	IENT I	LIST CONTINUED
2	CPR Manikins - child	2 each	Stylet - adult and pediatric
2	CPR Manikins - infant	1 box	1 cc Syringes
1 per	CPR face shields or similar barrier	1 box	3 cc Syringes
student	device (or provided by the student)	1 box	5 cc Syringes
1 per	Pocket mask (or provided by the	1 box	10-12 cc Syringes
student	student)	1 box	20 cc Syringes
1	Semi-Automatic Defibrillator or AED training device	2	IV Infusion Arm
1 box	IV Catheter - Butterfly	5 bags each	IV Fluids: 100cc, 250cc, 500cc, 1000cc
1 box	IV Catheter - 24 Gauge	5 sets	
1 box	IV Catheter - 22 Gauge	each	IV Tubing - 10gtt and 60gtt
1 box	IV Catheter - 20 Gauge	5 sets	Blood tubing
1 box	IV Catheter - 18 Gauge	2	Sharps containers
1 box	IV Catheter - 16 Gauge		Invasive Skills Manikin -
1 box	IV Catheters central line catheter or intra-cath	1 for each	Cricothyrotomy, Central Line, Tension Pneumothorax
1 unit	Monitor/Defibrillator	skill	NOTE: A single manikin equipped for
1 unit	Arrhythmia Simulator		all skills, or a combination of manikins to cover all skills, is acceptable.
1 box	Electrodes		Training Devices for intraosseous and
2 unit	Intubation Manikin-adult	4 4	sternal intraosseous, adult and
2 unit	Intubation Manikin - pediatrics	1 for each	pediatric
1 set	Laryngoscope Handle and Blades -	skill	NOTE: A single device equipped for
each	one complete set curved and straight, sizes 0 through 4		all skills, or a combination of devices to cover all skills, is acceptable.
type	Endotracheal Tubes - 3.0, 3.5, 4.0,	2	Magill forceps
1 set	4.5, 5.0, 5.5, 6.0, 6.5, 7.0, 7.5, 8.0,	2	Hemostat forceps
	8.5, and 9.0	3	IV tourniquets
1	Esophageal Tracheal Double	3	Scalpels
'	Lumen Airway Device	1	Simulated Drug Box

### Attestation

By affixing my signature below, I attest, under penalty of perjury, as defined in A.R.S. § 13-2702(A)(2), a class 4 felony and as prescribed in Arizona Administrative Code ("A.A.C.") R9-25-301(B)(4), that the training program named herein has the equipment and facilities that meet the requirements for the courses specified in A.A.C. R9-25-301(B)(3)t the answers I have given in this application addendum are true and correct.

Applicant Signature	Application Date	Bureau Received Stamp
v		
		Bureau Use Only



# ARIZONA DEPARTMENT OF HEALTH SERVICES BUREAU OF EMERGENCY MEDICAL SERVICES & TRAUMA SYSTEM BLS Training Program Equipment Attestation Addendum



Training Program Name	Applicant's Certification Number

### **BLS MINIMUM EQUIPMENT LIST**

- Pocket Mask
- Bag-Valve-Mask
- Flow restricted oxygen powered ventilation device
- Oral Airways
- Nasal Airways
- Suction Units
- Suction Catheters
- Oxygen Tank
- Regulator
- Non-rebreather mask
- Nasal Cannula
- Exam Gloves
- Stethoscope
- Blood Pressure Cuffs
- Penlight
- Tube of Oral Glucose
- Epinephrine auto-injector trainer
- Handheld inhaler suitable for training purposes
- Defibrillator manikins
- Automated External Defibrillator

- NTG Training Bottle
- Activated Charcoal
- Sterile Dressings
- Bandages
- Splints
- Pneumatic anti-shocl garment
- Triangular bandage
- Stick or Rod
- Air Splints
- Eye Protection
- Blanket
- Universal Dressing
- Occlusive Dressing
- Roller Bandage
- 4x4 Gauze Pads
- Burn Sheets
- Sterile Water or Saline

### Attestation

By affixing my signature below, I attest, under penalty of perjury, as defined in A.R.S. § 13-2702(A)(2), a class 4 felony and as prescribed in Arizona Administrative Code ("A.A.C.") R9-25-301(B)(4), that the training program named herein has the equipment and facilities that meet the requirements for the courses specified in A.A.C. R9-25-301(B)(3)t the answers I have given in this application addendum are true and correct.

Applicant Signature	Application Date	Bureau Received Stamp
X		
		Bureau Use Only

01/13

Arizona EMT-I(99)-to-EMT-P Transition Course (Authorized by A.R.S. §§ 36-2202(A)(3) and (A)(4) and 36-2204(1) and (3))

### PENDING DEVELOPMENT



Date: \_\_\_\_\_

Signature: \_\_\_\_

### ARIZONA DEPARTMENT OF HEALTH SERVICES **BUREAU OF EMERGENCY MEDICAL SERVICES & TRAUMA SYSTEM**

### **Emergency Medical Care Technician**Transition Competency Attestation



Adopted 09/12

Print or Type The Emergency Medical (	Care Technician's Full Name	Arizona Certification Number
As authorized by Arizona Revised Statute	("A R S ") § 36-2205(A). The director, in	consultation with the medical director of
the emergency medical services and traus		
commission, has established training crit		
emergency medical care technician. To		
education verification below and submit the		
Medical Care Technician named herein.		g
5.40		- V
BAS	C TO EMT TRANSITION EDUCATION	ON
		dministrative Medical Director for the BLS
		signature, that this Emergency Medical
	ation and demonstrated competency in t	he content as outlined below: (NEMSES
page reference numbers provided)		
EMS Systems( p. 11)	Reassessment (p. 21)	Head, Face, Neck and Spine (p. 41)
Research (p. 11)	Neurology (p. 23)	Multi-system Trauma (p. 43)
Therapeutic Communications (p. 13)	Abdominal and Gastrointestinal (p. 24)	Abdominal & Genitourinary Trauma (p. 38)
Medical Legal / Ethics (p. 13)	Infectious Diseases (p. 26)	Nervous System Trauma (p. 42)
Airway Management (p. 17)	Endocrine (p. 27)	Special Consideration in Trauma (p. 42)
Respiration (p. 18)	Psychiatric (p. 28)	Obstetrics (p. 44)
Artificial Ventilation (p. 18)	Cardiovascular (p. 29)	Ambulance Safety Principles (p. 48)
Scene Size up (p. 20)	Respiratory (p. 31)	Incident Management (p. 49)
Primary Assessment (p. 20) History Taking (p. 20)	Hematology (p. 32)	Multiple Casualty Incidents (p. 49)
Secondary Assessment (p. 20)	Genitourinary/Renal (p. 33) Trauma Overview (p. 35)	Hazardous Materials Awareness (p. 49) Terrorism & Disaster Mass Casualty p.50
Monitoring Devices (p. 21)	Chest Trauma (p. 37)	Terrorism & Disaster Mass Casualty p.50
<u> </u>	, ,	
PAF	RAMEDIC TRANSITION EDUCATIO	N
As the authorized EMS Fire Agency	/ Evenutive/Training Brogram Director/A	Aministrative Medical Director for the ALC
		dministrative Medical Director for the ALS signature, that this Emergency Medical
		the content as outlined below: (NEMSES
page reference numbers provided)	ation and demonstrated competency in	the content as odilined below. (IVEWOLO
EMS Systems (p. 11)	Monitoring Devices (p. 21)	Chest Trauma (p. 37)
Documentation (p. 13)	Medical Overview (p. 22)	Head, Face, Neck and Spine (p. 41)
Medical Legal / Ethics (p. 13)	Neurology (p. 23)	Multi-system Trauma (p. 43)
Anatomy & Physiology (p. 17)	Abdominal & Gastrointestinal (p. 24)	Pediatrics (p. 46)
Airway Management (p. 17)  Respiration & Artificial Ventilation (p. 18)	Immunology (p. 25) Infectious Diseases (p. 26)	Ambulance Safety Principles (p. 48) Incident Management (p. 49)
Principles of Pharmacology (p. 15)	Endocrine (p. 27)	Multiple Casualty Incidents (p. 49)
Emergency Medications (p. 16)	Psychiatric (p. 28)	Hazardous Materials Awareness (p. 49)
Scene Size up (p. 19)	Cardiovascular (p. 29)	Terrorism & Disaster Mass Casualty p.50
Primary Assessment (p. 20)	Respiratory (p. 31)	
History Taking (p. 20)	Hematology (p. 32)	
Secondary Assessment (p. 20)	Trauma Overview (p. 35)	
	Attactation	
	Attestation	
By affixing an authorized signature below, the	ne signatory attest, under penalty of perju	ury, as defined in A.R.S. § 13-2702(A)(2),
a class 4 felony and Arizona Administrative		
addendum is true and correct.		•
Authorizod Cianotura	Authorization Turn	Duran Han Only
Authorized Signature	Authorization Type	Bureau Use Only

☐ Training Program Director

☐ EMS-Fire Agency Executive

■ Medical Director

### Arizona Intermediate '99 Refresher Course

### PENDING DEVELOPMENT

### Arizona Scope of Practice

Legend	
✓	Arizona Scope of Practice skill
STR	Specialty Training Requirement: Skill requires specific specialty training with Medical Director authorization and involvement
*	Already intubated

#### **Draft Language - Subject to ADHS Approval/Edits**

This Arizona Scope of Practice table is developed to identify the potential arena of skills that an EMCT of different certification levels may perform. Skills marked with an " $\checkmark$ " at the EMR or EMT level are considered BLS skills and do not require medical direction to perform. Skills marked with an " $\checkmark$ " for AEMT or Paramedic, not in the EMR and EMT levels, and all STR skills require medical direction.

A Medical Director may restrict the practice of any subset of the ALS or STR skills identified below, or allow the EMCT to practice all of the skills listed, so long as he/she ensures and documents that the EMCT has received sufficient training to ensure initial and on-going competency for those skills denoted as STR.

irway/Ventilation/Oxygenation	EMT	<b>AEMT</b>	P
Airway- esophageal	STR	✓	✓
Airway- supraglottic	STR	✓	✓
Airway- nasal	✓	✓	✓
Airway- oral	✓	✓	✓
Bag-valve-mask (BVM)	✓	✓	✓
BiPAP/CPAP			✓
Chest decompression- needle			✓
Chest tube placement- assist only			STR
Chest tube monitoring and management			STF
Cricoid pressure (Sellick's maneuver)	✓	✓	✓
Cricothyrotomy- needle			✓
Cricothyrotomy- percutaneous			✓
Cricothyrotomy- surgical			STF
Demand valve- manually triggered ventilation	✓	✓	✓
End tidal CO2 monitoring/capnography			✓
Gastric decompression- NG tube			✓
Gastric decompression- OG tube			✓
Head-tilt chin lift	✓	✓	✓
Intubation- nasotracheal			✓
Intubation- orotracheal			✓
Jaw-thrust	✓	✓	✓
Jaw-thrust – modified (trauma)	✓	✓	✓
Medication Assisted Intubation (paralytics)			STF
Mouth-to-barrier	✓	✓	✓
Mouth-to-mask	✓	✓	✓
Mouth-to-mouth	✓	✓	✓
Mouth-to-nose	✓	✓	✓

Mouth-to-stoma	<b>√</b>	<b>√</b>	✓
Obstruction- direct laryngoscopy			✓
Obstruction- manual	✓	✓	✓
Oxygen therapy- humidifiers	✓	✓	✓
Oxygen therapy- nasal cannula	✓	✓	✓
Oxygen therapy- non-rebreather mask	✓	✓	✓
Oxygen therapy- partial rebreather mask	✓	✓	✓
Oxygen therapy- simple face mask	✓	✓	✓
Oxygen therapy- venturi mask	✓	✓	✓
PEEP- therapeutic			$\checkmark$
Pulse oximetry	✓	✓	✓
Suctioning- upper airway	✓	✓	✓
Suctioning- tracheobronchial		<b>√</b> *	✓
Automated transport ventilator	STR	STR	STR
Cardiovascular/Circulation	EMT	AEMT	Р
Cardiac monitoring- multiple lead (interpretive)			✓
Cardiac monitoring- single lead (interpretive)			✓
Cardiac - multiple lead acquisition (non-interpretive)	STR	STR	✓
Cardiopulmonary resuscitation	✓	✓	✓
Cardioversion- electrical			✓
Carotid massage – (≤17 years)			STR
Defibrillation- automatic/semi-automatic	✓	✓	✓
Defibrillation- manual			✓
Hemorrhage control- direct pressure	✓	✓	✓
Hemorrhage control- tourniquet	✓	✓	✓
Internal; cardiac pacing- monitoring only			✓
Mechanical CPR device	STR	STR	STR
Transcutaneous pacing- manual			✓
Immobilization	EMT	AEMT	Р
Spinal immobilization- cervical collar	✓	<b>√</b>	<b>√</b>
Spinal immobilization- long board	✓	✓	✓
Spinal immobilization- manual	✓	<b>√</b>	✓
Spinal immobilization- seated patient (KED,etc.)	✓	<b>√</b>	✓
Spinal immobilization- rapid manual extrication	✓	✓	<b>√</b>
Extremity stabilization- manual	✓	✓	<b>√</b>
Extremity splinting	✓	✓	<b>√</b>
Splint- traction	✓	<b>√</b>	<b>√</b>
Mechanical patient restraint	<u>√</u>	<b>√</b>	· ✓
Emergency moves for endangered patients	<u> </u>	<u> </u>	<u>·</u> ✓
Medication administration- routes	EMT	AEMT	Р
Assisting patient with his/her own prescribed medications (aerosolized/nebulized)	∠ LIVII	✓ ALIVIT	<b>-</b>
Aerosolized/nebulized (beta agonist)	STR	<b>✓</b>	<b>√</b>
	5111	-	-

	STR	✓	✓
Endotracheal tube			✓
Inhaled self-administered (nitrous oxide)		✓	✓
Intradermal			✓
Intramuscular		✓	✓
Intranasal		✓	✓
Intravenous push		✓	✓
Intravenous piggyback			✓
Intraosseous			✓
Nasogastric			✓
Oral	✓	✓	✓
Rectal			✓
Subcutaneous		✓	✓
Sublingual		✓	✓
Auto-injector (self or peer)	✓	✓	✓
Auto-injector (patients own prescribed medications)	✓	✓	✓
IV initiation/maintenance fluids	EMT	AEMT	Р
Access indwelling catheters and implanted central IV ports			✓
Central line- monitoring			✓
Intraosseous- initiation		✓	✓
Intravenous access		$\checkmark$	$\checkmark$
Intravenous initiation- peripheral	STR	✓	✓
	STR ✓	<b>√</b>	<b>√</b>
Intravenous initiation- peripheral		•	√ √ √
Intravenous initiation- peripheral Intravenous- maintenance of non-medicated IV fluids		•	✓ ✓ ✓ ✓ STR
Intravenous initiation- peripheral Intravenous- maintenance of non-medicated IV fluids Intravenous- maintenance of medicated IV fluids		•	✓
Intravenous initiation- peripheral Intravenous- maintenance of non-medicated IV fluids Intravenous- maintenance of medicated IV fluids Umbilical initiation	✓	√ ·	✓ STR
Intravenous initiation- peripheral Intravenous- maintenance of non-medicated IV fluids Intravenous- maintenance of medicated IV fluids Umbilical initiation  Miscellaneous	✓ EMT	. ✓ AEMT	✓ STR P
Intravenous initiation- peripheral Intravenous- maintenance of non-medicated IV fluids Intravenous- maintenance of medicated IV fluids Umbilical initiation  Miscellaneous Assisted delivery (childbirth)	EMT ✓	AEMT	✓ STR P ✓
Intravenous initiation- peripheral Intravenous- maintenance of non-medicated IV fluids Intravenous- maintenance of medicated IV fluids Umbilical initiation  Miscellaneous  Assisted delivery (childbirth) Assisted complicated delivery (childbirth)	EMT ✓	AEMT  ✓	✓ STR P ✓
Intravenous initiation- peripheral Intravenous- maintenance of non-medicated IV fluids Intravenous- maintenance of medicated IV fluids Umbilical initiation  Miscellaneous  Assisted delivery (childbirth) Assisted complicated delivery (childbirth) Blood glucose monitoring	EMT  ✓	AEMT  ✓	✓ STR  P  ✓ ✓
Intravenous initiation- peripheral Intravenous- maintenance of non-medicated IV fluids Intravenous- maintenance of medicated IV fluids Umbilical initiation  Miscellaneous  Assisted delivery (childbirth) Assisted complicated delivery (childbirth) Blood glucose monitoring Blood pressure- automated	✓ EMT ✓ ✓	AEMT  ✓  ✓	✓ STR  P  ✓ ✓
Intravenous initiation- peripheral Intravenous- maintenance of non-medicated IV fluids Intravenous- maintenance of medicated IV fluids Umbilical initiation  Miscellaneous Assisted delivery (childbirth) Assisted complicated delivery (childbirth) Blood glucose monitoring Blood pressure- automated Blood pressure- manual	<b>EMT</b> ✓  ✓  ✓	AEMT  ✓  ✓  ✓	✓ STR  P  ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
Intravenous initiation- peripheral Intravenous- maintenance of non-medicated IV fluids Intravenous- maintenance of medicated IV fluids Umbilical initiation  Miscellaneous  Assisted delivery (childbirth) Assisted complicated delivery (childbirth) Blood glucose monitoring Blood pressure- automated Blood pressure- manual Eye irrigation	<b>EMT</b> ✓  ✓  ✓	AEMT  ✓  ✓  ✓	✓ STR  P ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
Intravenous initiation- peripheral Intravenous- maintenance of non-medicated IV fluids Intravenous- maintenance of medicated IV fluids Umbilical initiation  Miscellaneous  Assisted delivery (childbirth) Assisted complicated delivery (childbirth) Blood glucose monitoring Blood pressure- automated Blood pressure- manual Eye irrigation Eye irrigation (Morgan lens)	<b>EMT</b> ✓  ✓  ✓	AEMT  ✓  ✓  ✓	✓ STR  P  ✓ ✓ ✓ ✓ ✓ ✓ ✓ STR
Intravenous initiation- peripheral Intravenous- maintenance of non-medicated IV fluids Intravenous- maintenance of medicated IV fluids Umbilical initiation  Miscellaneous  Assisted delivery (childbirth) Assisted complicated delivery (childbirth) Blood glucose monitoring Blood pressure- automated Blood pressure- manual Eye irrigation Eye irrigation (Morgan lens) Thrombolytic therapy- initiation	<b>EMT</b> ✓  ✓  ✓	AEMT  ✓  ✓  ✓	STR P  ✓  ✓  STR STR  STR
Intravenous initiation- peripheral Intravenous- maintenance of non-medicated IV fluids Intravenous- maintenance of medicated IV fluids Umbilical initiation  Miscellaneous  Assisted delivery (childbirth) Assisted complicated delivery (childbirth) Blood glucose monitoring Blood pressure- automated Blood pressure- manual Eye irrigation Eye irrigation (Morgan lens) Thrombolytic therapy- initiation Urinary catheterization	<b>EMT</b> ✓  ✓  ✓	AEMT  ✓  ✓  ✓	STR  P  ✓  ✓  ✓  ✓  ✓  ✓  ✓  ✓  STR  STR  STR